Project: UPPER TAMOR HYDROPOWER PROJECT (285 MW) Taplejung, Nepal

Vehicle Recovery

&

Damage Assessment Report

Operational Incident Response and Fleet Restoration

Prepared for: Executive Leadership Team and Department Heads

Service Alliance

Tamor Energy Pvt. Ltd.
Employer

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Contractor

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1. Incident Overview

- **Incident Type:** Vehicle Rollover / Unloading Accident
- **Date of Incident:** January 21, 2026
- **Time:** Between 12:30 PM – 1:00 PM
- **Location:** Construction Site near Army camp, Mitlung, Nepal
- **Driver Name:** Pema Dorje Tamang

2. Asset Information

- **Asset Code:** 321 39 124
- **Regd. No**: Ga 1 Ka 6320
- **Vehicle Type:** Eicher Dump Truck (Tipper)
- **Visual Identification:** The number **39-124** is clearly visible on the driver-side door

3. Incident Description & Cause

Summary:

The vehicle tipped over onto its side while attempting to unload material at a construction site.

Driver's Statement:

Driver Pema Dorje Tamang explained that he was backing the vehicle up to unload a muck shipment.

- **Pre-Check:** He stated that he exited the cab twice to check the tires and the ground to ensure the vehicle was balanced ("...dui choti jharera pani here sir...").
- **Maneuver:** After checking, he moved the vehicle forward and backed up again to align it properly.
- **The Event:** He believed the tires were stable ("...tyre balanced nai thiyo..."). However, as he raised the hydraulic bed to unload the material, the load suddenly shifted ("...load le ekkasi phaltiyo..."), causing the vehicle to lose balance and tip over.

4. Visual Assessment (Site Observations)

Based on the attached images:

- **Position:** The dump truck is lying completely on its right side.
- **Scene:** The incident occurred on an unpaved construction road near a body of water (river/dam area). The ground appears to be loose earth/gravel.
- **Damage:** The passenger side of the cabin is in contact with the ground. No smoke or fire is visible.
- **Recovery Status:** Heavy machinery, including a CAT excavator and an XCMG loader, were present at the scene, assisting in recovery operations to right the vehicle.

5. Recovery Process

The recovery operation involved heavy machinery to right the overturned vehicle. The sequence of events, as documented in the provided images, is as follows:

- **Phase 1**: Initial Assessment: The truck is seen lying on its side with the dump bed partially extended.
- **Phase 2**: Stabilization & Equipment Deployment: An XCMG wheel loader (Z50GN) and a CAT excavator are positioned around the truck to assist. The excavator uses its bucket to support or lift the truck's frame, while the loader clears debris or stabilizes the lower section.
- **Phase 3**: Righting the Vehicle: The excavator likely applied lifting force to the upper side of the dump bed/chassis while the loader ensured the vehicle did not slide. The vehicle was successfully brought back to an upright position and shifted to workshop.

6. Preliminary Conclusion

The incident appears to be a **tipping accident caused by load imbalance during the dumping process**. While the driver followed safety protocols by checking the ground stability, the sudden shift of the material while the bed was raised caused the center of gravity to shift, resulting in the rollover.

7. Damage Assessment

Based on visual inspection of the recovered vehicle, the following components appear damaged or require inspection:

- **Cab Structure:**
  - **Roof:** Significant denting and deformation on the right side of the roof due to impact with the ground.
  - **Doors:** Possible misalignment or damage to the driver-side door mechanism; passenger side likely scraped.
  - **Windshield/Windows:** Shattered; needs replacement.
- **Hydraulic System:** The hydraulic ram was fully extended during the fall. It must be inspected for bending, seal leaks, or stress fractures.
- **Chassis & Suspension:**
  - **Leaf Springs:** Potential stress damage from the sudden lateral load shift.
  - **Axle Alignment:** Risk of misalignment due to the fall impact.
- **Body/Dump Bed:** Scratches and dents on the right exterior side; hinge mechanisms need checking.

- **Mirrors & External Fittings:** Side mirrors and external lights on the impact side are broken.

Would you like me to...

- Draft a formal **insurance claim letter** for this incident?
- Create a **safety advisory** checklist for drivers regarding "unloading on uneven ground" to prevent future occurrences?